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Model #: SU3000RTXL2U

SmartOnline Expandable 2U Rack / Tower UPS System - On-line, double-conversion, sine wave UPS with PDU switching, current monitoring and fault tolerant auto-bypass

Highlights

- 3000VA / 3 kVA / 2500 watt on-line, double-conversion, extended run 2U rack/tower UPS
- Economy mode option offers 97% efficiency, reduces power consumption and BTU emissions
- Maintains selectable 100/110/115/120/127V +/-2% output during brownouts and overvoltages from 70 to 144V (50/60 Hz auto-sensing)
- Simultaneous communications via USB, serial, contact closure, EPO and SNMP/Web card slot accessory
- Fault-tolerant auto-bypass, current monitoring and 2 load bank switched PDU control
- Input: L5-30P (120V 30A) / Output: 6 5-15/20R & 1 L5-30R
- 2 year product warranty / $250,000 Ultimate Lifetime Insurance (USA & Canada only)

Description

3000VA / 3kVA / 2500 watt on-line, double-conversion UPS system features optional economy-mode operation with 97% efficiency for reduced power consumption and cooler operation. Uninterruptible Power Supply (UPS) actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. 2U rack / tower / wallmount compatible form factor with depth of only 26 inches (66 cm) offers ideal protection for critical server, networking and telecommunications equipment in datacenters and remote equipment closets. Ships factory configured for 120V operation and offers selectable voltage operation for 100/110/115 and 127V nominal voltages. Connects to L5-30R utility receptacle (120V 30A) and offers outlets compatible with common 5-15P, 5-20P and L5-30P equipment or PDU plugs. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation in online mode. Network management interfaces include USB port, DB9 serial port and SNMPWEBCARD slot. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and mains power conditions via all network interfaces at once. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated two bank PDU switching supports automated load shedding and remote-reboot of connected equipment. 4 stage metered current monitoring and battery charge status LEDs. Mains power and voltage regulation LEDs. Audible Alarm. Self-test. Fault-tolerant auto-bypass mode. LED display panel easily rotates for better viewing in rackmount or tower configurations. Includes 4 post rackmount accessories. 2-9USTAND tower kit and 2POSTRMKITWM two post rackmount and wall-mount hardware accessories available. Field replaceable, hot swappable internal batteries and external battery packs. Two year warranty with $250,000 connected equipment insurance. Extended warranty and service contracts available.

Applications

Ideal for protection of critical 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

Package Includes

- SU3000RTXL2U UPS System
- 4 post rackmount installation brackets
- PowerAlert Software CD and cabling
- Owner's manual with warranty information

Features

- SmartOnline high-performance UPS system is ideal for critical voice, data, medical and industrial network applications
- Optional economy-mode operation with 97% efficiency for reduced power consumption and cooler operation
- Economy mode is schedulable via PowerAlert UPS management software for daily or weekly hours of operation to enable precision output during peak operating hours and high efficiency, low BTU emission operation during off-peak times
- Maintains continuous operation through blackouts, voltage fluctuations
- On-line, double-conversion mode provides perfectly regulated sine wave output within 2% of 100/110/115/120/127V (user selectable) with zero transfer time
- Supports operation at 50/60Hz (auto-sensing) with the ability for full-time frequency conversion from 50 to 60Hz or 60 to 50Hz (frequency conversion de-rates UPS capacity by 25% - see specifications)
- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve power problems not addressed by other UPS types
- Corrects line voltage conditions as low as 70V and as high as 144V to within 2% of selected nominal voltage
- Standard internal battery set offers 15 minutes runtime at half load (1250W) and 6 minutes at full load (2500W)
- Expandable battery runtime with optional BP72V15-2U and BP72V28RT-3U external battery packs
- Compact rackmount form factor installs using only 2 rack spaces (2U) with a depth of only 26 inches
- Ships with all mounting accessories for 4 post rackmount installation
- Optional 2POSTRMKITWM enables 2 post rackmount or wallmount installation
- Optional 2-9USTAND accessory enables upright tower placement
- Fault tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS suffers internal failure and requires maintenance
- Network interfaces support simultaneous communications via built-in USB, DB9 serial / contact-closure and SNMPWEBCARD slot
- HID compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test, load bank output power control and remote reboot, UPS nominal voltage adjustment and UPS line to battery power voltage setpoints
- Built-in Emergency Power Off (EPO) interface with cable
- NEMA L5-30P input plug / NEMA 5-15/20R & L5-30R output receptacles
- Integrated 2 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual load banks (each bank has 3 outlets)
- Front panel LEDs offer current monitoring and battery charge level information
- Network grade AC surge suppression
- Field replaceable, hot swappable internal batteries and external battery packs
- 2 year manufacturer's product warranty; $250,000 Ultimate Lifetime Insurance
- Extended warranty and service contracts available

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	100/110/115/120/127VAC (factory configured for 120v)
Frequency compatibility	50/60Hz Auto-sensing
OUTPUT	
Output VA	3000
Output watts	2500 watts (120/127V nominal) / 2400 watts (100/110/115V nominal)
Output nominal voltage	100/110/115/120/127VAC (factory configured for 120v)
Output voltage regulation	+/- 2% in standard double-conversion mode (+10% / -12% in economy mode)

Output frequency regulation	Frequency is regulated to 50/60Hz +/-0.05 Hz. Frequency conversion from 50 to 60Hz and 60 to 50Hz is supported (output watt capacity is reduced by 25% in when frequency conversion is in use).
Outlet quantity / type	7 outlets total (6 5-15/20R / 1 L5-30R)
Customized load management receptacles	Two individually controllable load banks (each bank consists of 3 5-15/20R outlets)
Overload protection	L5-30R outlet is non breakered, load banks 1 & 2 (three 5-15/20R outlets each) are protected by separate 20A circuit breakers
INPUT	
Maximum input amps	24A (120v)
Input connection type	L5-30P (120V 30A)
Input cord length	10 ft / 3m
Recommended Electrical Service	100/110/115/120/127V 30A
BATTERY	
Full load runtime	6 minutes (2500w)
Half load runtime	15 minutes (1250w)
Expandable battery runtime	Runtime is expandable with optional BP72V15-2U (limit 1) and BP72V28RT3U (multi-pack compatible) external battery packs
DC system voltage	72VDC
Battery recharge rate	6.8 hours to 90%
Replacement Battery Cartridge	RBC96-2U
VOLTAGE REGULATION	
Voltage regulation description	In double conversion mode, output is regulated within 2% of selected nominal voltage. In economy mode, output is regulated within -12% / +10% of selected nominal voltage.
Overvoltage correction	Corrects overvoltages to 144V
Brownout correction	Corrects undervoltages to 80V (70V at less than 70% load)
LEDS ALARMS & SWITCHES	
Front panel LEDs	LED STATUS DISPLAY: line power (green), online (green), bypass (yellow), on battery (green), overload (red), battery low (yellow) - 4 LED LOAD / BATTERY LEVEL DISPLAY (100%, 75%, 50%, 25%). LCD display panel easily rotates for viewing in rackmount or tower configurations.
Alarms	Multi-function audible alarm with distinctive ring patterns offer notification of backup operation (2 seconds on / 0.5 seconds off), low battery warning (1.25 seconds on / 0.5 seconds off), overload (sounds continuously), UPS fault (4.2 seconds on / 1 second off), input voltage out of frequency (2.1 seconds on / 0.14 seconds off) and high input voltage (2.1 seconds on 0.07 seconds off)
Switches	Includes power off/on switch to enable system turn on (press ON switch), UPS battery test (press ON switch during normal AC operation), buzzer silence (press ON switch during battery operation) and OFF (press OFF switch) - all switch functions require that the switch be pressed and held for longer than 2 seconds, but less than 4 seconds
SURGE / NOISE SUPPRESSION	
AC surge suppression	504 joules
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	

Shipping weight (lbs)	78.3
Shipping weight (kg)	35.5
Shipping Dimensions (HWD/in)	9 x 22 x 32.8
Shipping Dimensions (HWD/cm)	22.9 x 55.9 x 83.3
Unit weight (lbs)	68.8
Unit weight (kg)	31.2
Unit Dimensions (HWD/in)	3.5 x 17.3 x 26
Unit Dimensions (HWD/cm)	8.9 x 43.9 x 66
Material of construction	Steel
Form factors supported	Supports 2U rackmount installation in 4 post racks using included mounting accessories. Add 2POSTRMKITWM for two post racks and wallmount installation. Add 2-9USTAND accessory for upright tower installation
Cooling method	Fans
Battery Access	Battery access panel enables hot swappable battery replacement
ENVIRONMENTAL	
Relative Humidity	0-95% non condensing
Operating Temperature	32-104 F / 0-40 C
COMMUNICATIONS	
Network monitoring port	Includes USB port (HID enabled), DB9 Serial port (RS232 and contact closure supported)
Software and cabling included	Includes PowerAlert software, plus USB and DB9 cabling
SNMP compatibility	Built-in card accessory slot supports optional SNMPWEBCARD and RELAYIOCARD network accessories
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	Zero transfer time in double-conversion mode. 4 milliseconds typical transfer time in economy mode.
Low voltage transfer to battery power	Switches to battery power as line voltage drops to 80V or less (70V at loads under 70%)
High voltage transfer to battery power	Switches to battery power as line voltage increases to 144V or higher
SPECIAL FEATURES	
EPO port	Supports "Emergency Power Off" via set of dedicated built-in EPO jacks
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
Appearance	Attractive black steel rackmount housing
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	BP72V15-2U (limit 1), BP72V28RT3U (multi-pack compatible)
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), CSA (Canada), NOM (Mexico), FCC Part 15 Class A (EMI)

WARRANTY	
Product Warranty Period	2 year product warranty
Connected Equipment Coverage	$250,000 connected equipment insurance (USA and Canada only)
Optional Coverage	3-5 year warranties, plus next day and on-site warranty coverage available

Related Items

Extended Warranties		
WEXT3-2200-3000	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA	Qty: [optional]
WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	Qty: [optional]

External Battery Packs		
BP72V15-2U	BP72V15-2U - External Battery Pack for UPS System (limit 1)	Qty: [optional]
BP72V28RT-3U	BP72V28RT-3U - External Battery Pack for UPS System (limit 1)	Qty: [optional]

Power Distribution		
PDU2430	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	Qty: [optional]
PDUMH30NET	Switched, Metered PDU with Remote Monitoring - 2U Rackmount Power Distribution Unit for Networks with Individually Switchable Outlets, Current Metering, Remote Monitoring and Contro	Qty: [optional]
PDUMV30	Metered 0U Vertical Rack PDU - Metered Power Distribution Unit for Network Applications	Qty: [optional]
PDUMV30NET	Switched, Metered PDU with Remote Monitoring - 0U Vertical Rackmount Power Distribution Unit for Networks with Individually Switchable Outlets, Current Metering, Remote Monitoring and Control	Qty: [optional]

Rackmount/Wallmount Kits		
2POSTRMKITWM	Allows for 2 post rack mounting or wall mounting of Tripp Lite 2U-4U rackmount UPS systems and battery packs	Qty: [optional]

Shutdown Cable Kits		
AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	Qty: [optional]

SNMP Accessories		
ENVIROSENSE	Power Management Tools - Environmental Sensor	Qty: [optional]
SNMPWEBCARD	Power Management Tools - Internal SNMP/Web Card	Qty: [optional]
RELAYIOCARD	Programmable Relay I/O Card	Qty: [optional]

Tower Stands		
2-9USTAND	Tower Stand - Expandable Tower Base Stand UPS Accessory	Qty: [optional]

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=4210.

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